

[CLAIMS]

1. An aroma emitting apparatus for using a cigar-jack characterized by:

5 a main plug body having one end formed with a road portion inserted to the cigar-jack for electrical connection, and a plurality of plates oppositely installed to an outer circumference of the main plug body for being fixed to the cigar-jack;

an auxiliary plug body capable of adjusting a length of the main plug body by using a length control bolt;

10 a rotating member connected to an end of the auxiliary plug body, and rotated in accordance with an angle of inserting the main plug body into the cigar-jack to maintain a horizontal state;

a cartridge installed to a lower portion of the main plug body, and having a filter externally protruding from the inside the cartridge;

15 angle adjusting means for connecting the main plug body to the rotating member and controlling a rotating angle;

open/close means mounted within the rotating member for controlling opening/closing of a fragrance exhaust;

20 switching means mounted within the rotating member for performing an ON/OFF operation to electrically connect to the road portion; .

heating means internally formed within the rotating member and selectively supplied with a power source in accordance with the ON/OFF operation of the switching means for thereby being heated to evaporate liquid within the cartridge; and

25 holding means having one end with a fixing portion coupled to the rotating member or the cartridge, and the other end with a gripping portion for firmly holding a predetermined frame.

30 2. An aroma emitting apparatus for using a cigar-jack characterized by:

a main plug body having one end formed with a road portion inserted to the cigar-jack for electrical connection, and a plurality of plates oppositely installed to an outer circumference of the main plug body for being fixed to the cigar-jack;

an auxiliary plug body capable of adjusting a length of the main plug body by using a length control bolt;

5 a rotating member connected to an end of the auxiliary plug body, and rotated in accordance with an angle of inserting the main plug body into the cigar-jack to maintain a horizontal state;

a cartridge installed to a lower portion of the main plug body, and having a filter externally protruding from the inside the cartridge;

10 angle adjusting means for connecting the main plug body to the rotating member and controlling a rotating angle;

open/close means mounted within the rotating member for controlling opening/closing of a fragrance exhaust;

switching means mounted within the rotating member for performing an ON/OFF operation to electrically connect to the road portion;

15 heating means internally formed within the rotating member and selectively supplied with a power source in accordance with the ON/OFF operation of the switching means for thereby being heated to evaporate liquid within the cartridge;

holding means having one end with a fixing portion coupled to the rotating member or the cartridge, and the other end with a gripping portion for firmly holding a predetermined frame; and

20 a rotatably formed auxiliary cigar-jack having one end coupled with a connector of a PCB for being supplied with the power source, and the other end capable of receiving an cigar-jack item.

3. The apparatus of either one of claims 1 and 2, wherein the rotating member is characterized by a coupling portion formed to a lower portion thereof capable of being loaded with the cartridge, the fragrance exhaust formed in an upper portion thereof, and one end formed with a knob mounted for manipulating the opening/closing of the fragrance exhaust, a rear end installed with a display window of a light emitting diode, and the connector formed to a side plane coupled with the auxiliary cigar-jack; and

30 the cartridge including a container screw-coupled to the coupling portion, a lid, and a filter.

4. The apparatus of either one of claims 1 and 2, wherein the angle adjusting means is characterized by a tension rib formed along an end surface of the main plug body, and an indent portion formed along an end surface of the rotating member corresponding to a projecting portion of the tension rib.

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5. The apparatus of either one of claims 1 and 2, wherein the angle adjusting means is characterized by a bendable folding shape.

10 6. The apparatus of either one of claims 1 and 2, wherein the angle adjusting means is characterized by at least one indent portion formed along the end surface of the main plug body, and a ridge portion formed along an end surface of the rotating member corresponding to the indent portion.

15 7. The apparatus of either one of claims 1 and 2, wherein the heating means is characterized by:

20 a printed circuit board installed within the rotating member for supplying the power source in accordance with the ON/OFF operation of the switching means, and having a light emitting diode for displaying the supply of the power source and having the connector for supplying the power source to the auxiliary cigar-jack; and

a PTC device installed on the printed circuit board for evaporating liquid permeating in the filter of the cartridge.

25 8. The apparatus of either one of claims 1 and 2, wherein the heating means is characterized by:

30 a printed circuit board installed within the rotating member for supplying the power source in accordance with the ON/OFF operation of the switching means, and having a light emitting diode for displaying the supply of the power source and having the connector for supplying the power source to the auxiliary cigar-jack; and

a plurality of stripe resistors installed on the printed circuit board for evaporating liquid permeating in the filter of the cartridge.

9. The apparatus of either one of claims 1 and 2, wherein the open/close means is characterized by:

an open/close member of the fragrance exhaust installed within the rotating member and having one side with a rack structure;

5 a pinion coupled to the rack of the open/close member; and

an operative knob connected to a central shaft of the pinion for operating the open/close member.

10. The apparatus of either one of claims 1 and 2, wherein the open/close means of the fragrance exhaust is characterized by:

an open/close member installed within the rotating member and having at least one rib as a stopper at one side surface;

an eccentric cam with an operating distance adjustable by a combination with the rib as a stopper of the open/close member; and

15 an operative knob connected to a rotating shaft of the eccentric cam for operating the open/close member.

11. The apparatus of either one of claims 1 and 2, wherein the open/close means of the fragrance exhaust is characterized by:

20 an operative knob for operating the open/close member by interrelating with a slide switch on the PCB installed within the rotating member.

25 12. The apparatus of either one of claims 1 and 2, wherein the length control means is characterized by a plurality of screw coupling portions where the main plug body is coupled with the auxiliary plug body, and a length control bolt.

13. The apparatus of claim 2, wherein the auxiliary cigar-jack unit is characterized by:

30 a connector of the PCB at one end; and

a structure movable up and down and capable of receiving a cigar-jack item.